Exercise 2

02 September 2022 16:58

 Examine the python script populateContainer.py script (in populate_containers directory). It loads some web traffic data from Azure blob store into your Cosmos DB database container called WebsiteData

Run the populateContainer.py script (in populate_containers directory) to populate your collection.

Use F5 from inside Visual Studio Code or

python populate containers/populateContainer.py

from the command line (after you have activated your new environment!)

3. In the Azure Portal query the data

In your browser navigate to https://portal.azure.com

Authenticate as necessary

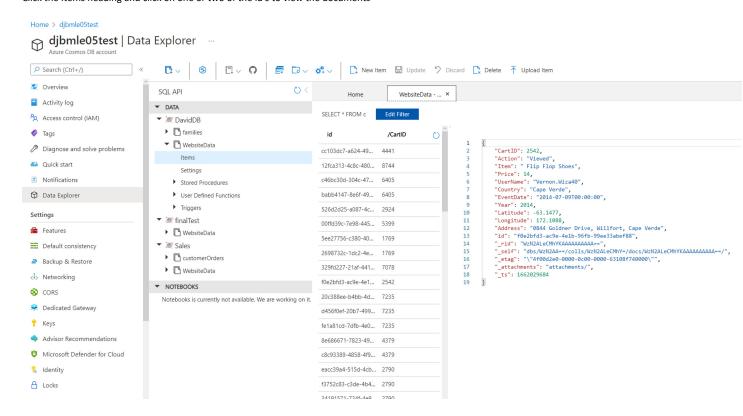
Find the Azure Cosmos DB Account we created earlier

Open up the up the Data Explorer tab from the left menu

Find your Database (the name you gave it in your .cosmosDBConfig.json file

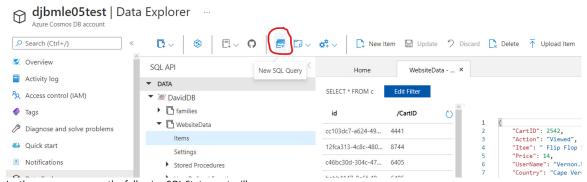
Find the WebSiteData container and expand it

Click the Items heading and click on one or two of the id's to view the documents



4. Click on the New SQL Query Icon to open a new SQL Query window

Home > dibmle05test

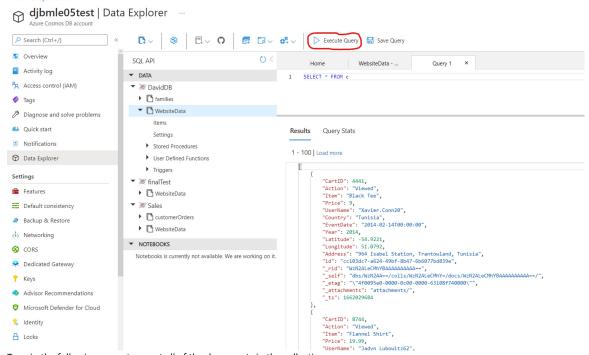


In the new query pane the following SQL Statement will appear SELECT * FROM c

This will return all of the documents in the collection as they are stored in the Database. Select

Execute Query to run the query.

Home \ dibmle05test



Type in the following query to count all of the documents in the collection SELECT COUNT(1)

FROM c

Select Execute and check the number of documents matches that returned by the populateContainer.py script you ran earlier

7. Write the SQL query to count the number of documents that have the property "Action" set to "Purchased"

Execute the query and record the number of purchases in the WebSiteData documents

This link may be of help:-

https://docs.microsoft.com/en-us/azure/cosmos-db/sql/tutorial-query-sql-api

8. Work out how to calculate the total price of all of the sales detailed in the WebSiteData documents

See https://docs.microsoft.com/en-us/azure/cosmos-db/sql/sql-query-aggregate-functions

for some help.